

Photosynthesis Lab Report Guidelines

Title – Specific to the variable we manipulated in class.

Introduction & Hypothesis – Follow general guidelines on report guide for introduction. Transition into the hypothesis by stating the purpose of the lab. The null hypothesis should be stated that there will be NO difference between your group data and the class average data.

Methods – Outline steps as appropriate; be sure to include materials & procedures in past tense.

Results – Include a table of all the quantitative data & a graph of the data. **Summarize the results in a paragraph.** Be cautious **not to explain WHY** the results occurred in this section. Simply summarize **what** the data mean in simple terms.

Analysis: You must complete a statistical analysis and discuss the implications of its results as related to your null hypothesis.

Perform a t-test using the website: http://www.physics.csbsju.edu/stats/t-test_bulk_form.html

Be sure to put in the group average values in one box and the class average values in the second box. If $p < .05$, reject the null hypothesis. If $p > .05$, accept the null hypothesis.

Explain why the results occurred the way they did and why there was/was not a difference in your data versus the class data.

Conclusions: Follow general guidelines on report guide.